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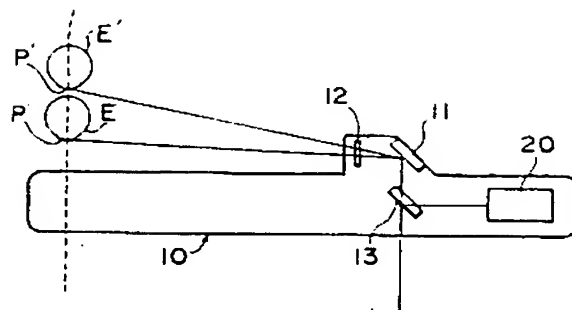
APPLICATION DATE : 15-08-88
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TITLE : SELF-CONSCIOUSNESS TYPE
VISION-TESTER



ABSTRACT : PURPOSE: To calculate the correct refracting power value of an eye to be examined with high accuracy by calculating refracting power in a collimating position based on a distance difference to the reference position of a cornea vertex in a collimating plate and an eye refracting power in the reference position.

CONSTITUTION: Parallel beams for collimating are deflected at a reflecting mirror 11, thereafter, pass a collimating plate 12 and irradiate the cornea vertex P of an eye E to be examined. The cornea vertex P is image-formed on the collimating plate 12 arranged in the focusing position by a focusing lens. A scale line S₁ of the collimating lens 12 is a position where the image is formed when the cornea vertex P of the eye E is in a first reference position, and a scale line S₂ is the position where the image is formed when a cornea vertex P' of an eye E' to be examined is in a second reference position. By using the refracting power value of the eye to be examined when the cornea vertex is in the first reference position and the difference between the first reference position and second reference position read from the scales of the collimating plate 12, the refracting power of the eye to be examined, in which the cornea vertex is fixed in the second reference position, is obtained by a prescribed expression.

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